

**Notice of Allowability**

Application No.

10/086,277

Examiner

Jean M Corrielus

Applicant(s)

KALUSKAR ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed on March 3, 2005.
2. ☒ The allowed claim(s) is/are 2-10, 45, 46, 48-55 and 69-109 renumbered as 1-59.
3. ☒ The drawings filed on September 19, 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
JEAN M. CORRIELUS  
PRIMARY EXAMINER

### **DETAILED ACTION**

1. This office action is in response to the amendment filed on March 3, 2005, in which claims 2-9, 45, 46, 48-55 and 69-109 are presented for further examination.

#### **Information Disclosure Statement**

2. The information disclosure statement (IDS) filed on March 03, 2005, complies with the provisions of M.P.E.P 609. It has been placed in the application file. The information referred to therein has been considered as to the merits.

#### **Drawings**

3. Applicants are required to furnish the formal drawings in response to this office action if the formal drawings have not been submitted. No new matter may be introduced in the required drawings. Failure to timely submit a drawing will result in ABANDONMENT of the application.

#### **EXAMINER'S AMENDMENT**

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Janet D. Chance Reg. No 55,048 on May 10, 2005.

The application has been amended as follows:

**In the claims**

Please claims 2, 3, 6, 45, 46 and 81 with the following:

2. A computer implemented method for reusing a data structure in which a compiled cursor is stored, comprising:

receiving a database statement from a client;

analyzing the database statement;

determining if the database statement is optimally shareable, sub-optimally shareable or non-shareable based on the analysis;

searching server memory for a similar database statement; and

reusing the data structure compiled for the similar database statement to execute the database statement when a system parameter that is configurable to control data structure sharing is configured to enable data structure sharing for all shareable database statements.

3. A computer implemented method for reusing a data structure in which a compiled cursor is stored, comprising:

receiving a database statement from a client;

analyzing the database statement;

determining if the database statement is optimally shareable, sub-optimally shareable or non-shareable based on the analysis;

searching server memory for a similar database statement; and

reusing the data structure compiled for the similar database statement to execute

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the database statement when a system parameter that is configurable to control data structure sharing is configured to enable data structure sharing only for optimally shareable database statements.

6. A computer implemented method for reusing a data structure in which a compiled cursor is stored, comprising:

receiving a database statement from a client;

analyzing the database statement;

determining if the database statement is optimally shareable, sub-optimally shareable or non-shareable based on the analysis;

searching server memory for an exact matching database statement if the statement is non-shareable; and

executing the data structure compiled from said exact matching database statement if said exact matching database is found in said memory.

45. A computer implemented system for sharing a data structure in which a compiled cursor is stored, comprising:

a server configured to accept a database statement from a client, analyze the database statement, and to determine if the database statement is optimally shareable, sub-optimally shareable, or non-shareable based on the analysis;

a search engine for searching shared memory for a similar database statement; and

a cursor sharing monitor for executing a data structure compiled for said similar database statement if the value of a system parameter is configured to enable data structure sharing, wherein the cursor sharing monitor reuses an execution plan of the data structure compiled for the similar database statement to execute the database statement only if the system parameter is configured to enable data structure sharing for all shareable database statements.

46. A computer implemented system for sharing a data structure in which a compiled cursor is stored, comprising:

a server configured to accept a database statement from a client, analyze the database statement, and to determine if the database statement is optimally shareable, sub-optimally shareable, or non-shareable based on the analysis;

a search engine for searching shared memory for a similar database statement; and

a cursor sharing monitor for executing a data structure compiled for said similar database statement if the value of a system parameter is configured to enable data structure sharing, wherein the cursor sharing monitor reuses an execution plan of the data structure compiled for the similar database statement to execute the database statement only if the system parameter is configured to enable data structure sharing for all optimally shareable database statements.

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8 1. A computer program product embodied on computer readable medium, the computer readable medium having stored thereon a sequence of instructions which, when executed by a processor, causes the processor to execute a method for reusing a data structure in which a compiled cursor is stored, the method comprising:

receiving a database statement from a client;

analyzing the database statement;

determining if the database statement is optimally shareable, sub-optimally shareable, or non-shareable based on the analysis;

searching server memory for a similar database statement; and

reusing the data structure compiled for the similar database statement to execute the database statement when a system parameter that is configurable to control data structure sharing is configured to enable data structure sharing for all shareable database statements.

**Allowable Subject Matter**

5. Claims 2-10, 45, 46, 48-55 and 69-109 are allowable in light of the Applicants' arguments and in light of the prior art made of record.

**Reasons for Indicating Allowable Subject Matter**

The following is an examiner's statement of reasons for allowance: Upon searching a variety of databases, the examiner respectfully submits that "reusing the data structure compiled for the similar database statement to execute the database statement when a system parameter that is configurable to control data structure sharing is configured to enable data structure sharing

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for all shareable database statements“ and “a cursor sharing monitor for executing a data structure compiled for said similar database statement if the value of a system parameter is configured to enable data structure sharing, wherein the cursor sharing monitor reuses an execution plan of the data structure compiled for the similar database statement to execute the database statement only if the system parameter is configured to enable data structure sharing for all optimally shareable database statements” in conjunction with all other limitations of the dependent and independent claims 2-10, 45, 46, 48-55 and 69-109 are not taught nor suggested by the prior art of record (PTO-892 and 1449). Therefore, all pending claims 2-10, 45, 46, 48-55 and 69-109 is hereby allowed.

Since allowable subject matter has been indicated, applicant is encouraged to submit formal drawings in response to this Office action. The early submission of formal drawings will permit the Office to review the drawings for acceptability and to resolve any informalities remaining therein before the application is passed to issue *if the formal drawings have not yet provided*. This will avoid possible delays in the issue process.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

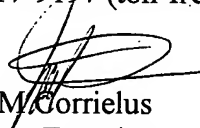
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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean M Corrielus whose telephone number is (571) 272-4032. The examiner can normally be reached on 10 hours shift.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Jean M Corrielus  
Primary Examiner  
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May 10, 2005